VINYL SIDING

All vinyl siding must conform and comply with the 2015 Minnesota Building Code (MBC) and the 2015 Minnesota Residential Code (MRC), Sections 1404.9 and R703.11. Sections 1404.9 and R703.11 states vinyl siding shall be certified and labeled as conforming to the requirements of ASTM D3679 by an approved quality control agency.

Section R703.1 states general exterior walls shall provide the building with a weather resistant exterior wall envelope. The exterior wall envelope shall be designed and constructed in such a manner as to prevent the accumulation of water within the wall assembly by providing a water resistive barrier behind the exterior veneer as required by Section R703.2. of the 2015 MRC.

Section R703.2 **Weather-Resistive Sheathing Paper.** A minimum of one layer of number 15 asphalt felt complying with ASTM D226 for Type 1 felt or other approved weather-resistive material shall be applied over sheathing of all exterior walls. See Table R703.4. Such felt or material shall be applied horizontally, with the upper layer lapped over the lower layer not less than 2 inches. Where joints occur, felt shall be lapped not less than 6 inches. Building paper or other approved material shall be continuous up to the underside of the rafter or truss top cord and terminated at penetrations and building appendages in such a manner to meet the requirements of the exterior wall envelope as described in Section R703.1.

Exceptions: Such felt or material is permitted to be omitted in the following situations:

1. In detached accessory buildings.
2. Where specifically prohibited by a sheathing and/or siding manufacturer.

The exterior wall envelope shall include **flashing** as described in Section R703.1 of the 2015 MRC. Approved corrosion resistant flashing shall be applied shingle-fashion in such a manner as to prevent entry of water into the wall cavity or penetration of water to the building structural framing components. Flashing shall extend to the surface of the exterior wall finish. Approved corrosion-resistant flashing shall be installed at all of the following locations:

1. Exterior window and door openings and similar penetrations in accordance with approved methods.
2. At intersections of the chimney or other masonry construction with frame or stucco walls over projection lips or stucco copings.
3. Under and at ends of masonry, wood or metal copings and sills.
4. Continuously above all projecting trim.
5. Where exterior porches, decks, stairs or landings attach to a wall or floor assembly of wood frame const.
6. At wall and roof intersections.
7. At built-in gutters.
8. Where exterior material meets in other than a vertical line.
9. Where the lower portion of sloped roof stops within the plane of intersecting wall cladding in such a manner as to divert water away from assembly in compliance with Section R903.2.1.
10. At the intersection of the foundation and rim joist framing when the exterior wall covering does not lap the foundation insulation.
11. At gable ends where the J-channel trim projects past the fascia board.
12. Code does not require kick-out flashing when only re-siding existing buildings, but it is recommended if feasibly possible to install as to prevent water intrusion to the building envelope.

**Caulking and Sealing** all exterior penetrations per manufacturer’s specifications of exterior finish material.

**Nails and fasteners** must be used and spaced according to the manufacturer’s specifications and Table R703.4.
<table>
<thead>
<tr>
<th>SIDING MATERIAL</th>
<th>NOMINAL THICKNESS (inches)</th>
<th>JOINT TREATMENT</th>
<th>WATER-RESISTIVE BARRIER REQUIRED</th>
<th>TYPE OF SUPPORTS FOR THE SIDING MATERIAL AND FASTENERS</th>
<th>Number of or spacing of fasteners</th>
</tr>
</thead>
<tbody>
<tr>
<td>Horizontal</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aluminum</td>
<td>0.019*</td>
<td>Lap</td>
<td>Yes</td>
<td>0.120 nail 1 1/2&quot; long</td>
<td>Same as stud spacing</td>
</tr>
<tr>
<td>With Insulation</td>
<td>0.019</td>
<td>Lap</td>
<td>Yes</td>
<td>0.120 nail 1 1/2&quot; long</td>
<td>Same as stud spacing</td>
</tr>
<tr>
<td>Anchored veneer</td>
<td>2</td>
<td>Section R703</td>
<td>Yes</td>
<td>See Section R703 and Figure R703.3c/2</td>
<td>4&quot; panel edges 12&quot; iner., sup.</td>
</tr>
<tr>
<td>Adhered veneer</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Core or masonry</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Panel siding</td>
<td>7/16</td>
<td>Note p</td>
<td>Yes</td>
<td>Note m</td>
<td>Same as stud spacing - 5 per bearing</td>
</tr>
<tr>
<td>Hardboard</td>
<td>7/16</td>
<td>Note p</td>
<td>Yes</td>
<td>Note m</td>
<td>Same as stud spacing - 2 per bearing</td>
</tr>
<tr>
<td>Steel</td>
<td>29 ga.</td>
<td>Lap</td>
<td>Yes</td>
<td>0.113 nail 1 1/4&quot;</td>
<td>Same as stud spacing</td>
</tr>
<tr>
<td>Particle board</td>
<td>3/8</td>
<td>Note k</td>
<td>Yes</td>
<td>0.113 nail 1 3/8&quot;</td>
<td>Same as stud spacing</td>
</tr>
<tr>
<td>Wood structural</td>
<td>3/8</td>
<td>Note p</td>
<td>Yes</td>
<td>0.113 nail 1 3/8&quot;</td>
<td>Same as stud spacing</td>
</tr>
<tr>
<td>Wood structural</td>
<td>3/8</td>
<td>Note p</td>
<td>Yes</td>
<td>0.099 nail 2 1/2&quot;</td>
<td>Same as stud spacing - 2 per bearing</td>
</tr>
<tr>
<td>Vinyl siding</td>
<td>0.035</td>
<td>Lap</td>
<td>Yes</td>
<td>0.120 nail 2 1/2&quot; (sheath) with a 0.313 head or 16-gage staple with 3/16&quot; crown</td>
<td>4&quot; panel edges 12&quot; iner., sup.</td>
</tr>
<tr>
<td>Wood rustic drop</td>
<td>7/8 Min</td>
<td>Lap</td>
<td>Yes</td>
<td>Fastener penetration into stud - 1&quot;</td>
<td>Face nailing up to 6&quot; widths, 1 nail per bearing: 8&quot; widths and over, 2 nails per bearing</td>
</tr>
<tr>
<td>Shiplap</td>
<td>15/32</td>
<td>Lap</td>
<td>Yes</td>
<td>Fastener penetration into stud - 1&quot;</td>
<td>Face nailing up to 6&quot; widths, 1 nail per bearing: 8&quot; widths and over, 2 nails per bearing</td>
</tr>
<tr>
<td>Bevel</td>
<td>7/16</td>
<td>Lap</td>
<td>Yes</td>
<td>Fastener penetration into stud - 1&quot;</td>
<td>Face nailing up to 6&quot; widths, 1 nail per bearing: 8&quot; widths and over, 2 nails per bearing</td>
</tr>
<tr>
<td>Bunt tip</td>
<td>3/16</td>
<td>Lap</td>
<td>Yes</td>
<td>6d common corrosion-resistant nail</td>
<td>6d common corrosion-resistant nail</td>
</tr>
<tr>
<td>Fiber cement</td>
<td>5/16</td>
<td>Note q</td>
<td>Yes</td>
<td>6d common corrosion-resistant nail</td>
<td>6d common corrosion-resistant nail</td>
</tr>
<tr>
<td>panel siding</td>
<td></td>
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</tr>
</tbody>
</table>

Footnotes from Minnesota Residential Code Weather-Resistant Siding Attachment & Minimum Thickness, Table R703.4:

a. Base on stud spacing of 16 inches on center where studs are 24 inches, siding shall be applied to sheathing approved for that spacing.

b. Nails is a general description and shall be T-head, modified round head, or round head with smooth or deformed shanks.

c. Staples shall have a minimum crown width of 7/16 inch outside diameter and be manufactured of minimum Number 16 gage wire.

d. Nails or staples shall be aluminum, galvanized, or rust-preventive coated and shall be driven into studs or fiberboard or gypsum backing.

e. Aluminum nails shall be used to attach aluminum siding.

f. Aluminum (0.019 inch) may not be used only when the maximum panel width is 10 inches and the maximum flat area is 8 inches. The tolerance for aluminum siding shall be +0.002 inch of the nominal dimension.

g. If board or panels are applied over sheathing or weather-resistant membrane, joints need not be treated. Otherwise, vertical joints shall occur to studs and be covered with battens or be lapped.

h. All attachments shall be coated with a corrosive resistant coating.

i. Shall be of approved type.

j. Three-eighths inch plywood shall not be applied directly to studs spaced greater than 16 inches on center to studs spaced greater than 24 inches on center. The stud spacing shall not exceed the panel span rating provided by the manufacturer unless the panels are installed with the face grain perpendicular to stud spacing.

k. Wood board sidings applied vertically shall be nailed to horizontal nailing strips or blocking set 24 inches on center. Nails shall penetrate 1.5 inches into studs and wood sheathing combined or blocking. A weather-resistant membrane shall be installed weatherboard fashion under the vertical siding unless the siding boards are lapped or battens are used.

l. Hardboard siding shall comply with AHA A135.6.

m. Vinyl siding shall comply with ASTM D3679.

n. When used to resist shear forces, the spacing must be 4 inches at panels edges and 8 inches on interior supports.

p. Minimum shank diameter of 0.092 inch, minimum head diameter of 0.240 inch, and nail length must accommodate sheathing and penetrate framing 1.5 inches.

q. Vertical edge joints shall occur at studs and shall be covered with a joint cover or shall be caulked.
City of Spring Lake Park - Code Enforcement
1301 81st Avenue NE • Spring Lake Park MN 55432 • Phone: 763-784-6491 • Fax: 763-792-7257 • www.slpmn.org

BUILDING PERMIT APPLICATION

Job Address ____________________________________________

Property Owner
Name ___________________________________________________
Address ____________________________________________ Phone ______
Email __________________________________________________

Type of Property
☐ Commercial Property
☐ Industrial Property
☐ Mobile Home Property
☐ Multi-Family Property
☐ Public Property
☐ Single Family Property

Contractor
Name __________________________________________________
Address ____________________________________________ Phone ______
Email __________________________________________________
State License # __________ Exp. Date ______ Lead Cert. Date ______

Type of Work
☐ Addition_________ ☐ MobileHome
☐ Alteration_________ ☐ New
☐ Accessory<200 Sq.Ft. ☐ Pool
☐ Basement Finish ☐ Remodel
☐ Concrete Work ☐ Roofing
☐ Deck ☐ Repair
☐ Demolition ☐ Replace
☐ Door Replacement ☐ Roofing
☐ Dumpster Enclosure ☐ Shed <200 Sq. Ft.
☐ Egress Window ☐ Siding
☐ Gypsum Board ☐ Structural Work
☐ Insulation ☐ Window Replacement
☐ Masonry Work ☐ Other ______

Applicant Same as ☐ Property Owner ☐ Contractor
Name __________________________________________________
Address ____________________________________________ Phone ______
Email __________________________________________________

Describe Work __________________________________________

Value of Work Including Labor __________________________ Start Date ______
Estimated Completion Date ______

Commercial/Industrial Submit two plan sets and specifications for commercial or industrial work.
Describe Building Use and/or Changes in Use

Notice
Separate permits are required for electrical, plumbing, heating, ventilating, and air conditioning. This permit becomes null and void if work or construction authorized is not commenced within 180 days or work is suspended or abandoned for a period of 180 days at any time after work is commenced.

I hereby certify that I have read and examined this application and know the same to be true and correct. All provisions of laws and ordinances governing this type of work will be complied with whether specified herein or not. The granting of a permit does not presume to give authority to violate or cancel the provisions of any other State or local law regulating construction or the performance of construction. Initial here

☐ Contractor Signature __________________________ Date of Application ______

☐ Homeowner Doing Work in Homestead Signature __________________________ Date of Application ______

If application is not fully completed, it will be denied at time of processing. Please verify that all necessary information is legible and plans are included with job cost estimates. Contact Permit Technician to verify all necessary information is provided before submitting.

Payment: We accept cash, checks payable to City of Spring Lake Park, or credit cards (with additional processing fees), at the front counter only.
Building Permit Applicant: Property Owner

I understand that the State of Minnesota requires that all residential building contractors, remodelers and roofers obtain a state license unless they qualify for a specific exemption from the licensing requirements. By signing this document, I attest to the fact that I am building or improving this house myself. I hereby claim to be exempt from the state licensing requirements because I am not in the business of building on speculation or for resale and that the house for which I am applying for this permit, located at

__________________________________ is the first residential structure I have built or improved the past twenty-four (24) months. I also acknowledge that because I do not have a state license, I forfeit any mechanic's lien rights to which I may otherwise have been entitled under Minnesota Statute 514.01. In the event that I do construct or improve another residential structure in the next 24 months, I will not do so until I obtain the required state license, per Minnesota Statute 326.84, understanding that failure to do so is a misdemeanor under state law.

Furthermore, I acknowledge that I may be hiring independent contractors to perform certain aspects of the construction or improvement of this house and I understand that some of these contractors may be required to be licensed by the State of Minnesota. I understand that unlicensed residential contracting; remodeling and/or roofing activity is a misdemeanor under Minnesota Statute 326.92, subdivision 1, and that I would forfeit my rights to reimbursement from the Contractor's Recovery Fund in the event that any contractors I hire are unlicensed.

I also acknowledge that as the contractor on this project, I am solely and personally responsible for any violations of the state building code and/or city ordinance in connections with the work performed on this property.

__________________________________
Signature of Property Owner

__________________________________
Date                dd/mm/yr